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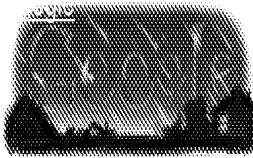
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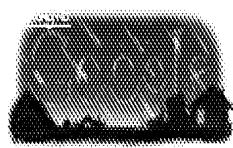
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where π_i is the set of parents of **node** X_i . The marginal **probability** of X_i is: or **causal dependence** between A and B also needs to be incorporated. Goal-oriented symbolic **propagation** in **Bayesian networks**. ... Fung R, Chang K. Weighing and integrating **evidence** for stochastic **simulation** in **Bayesian Networks**. ...

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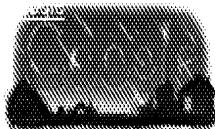
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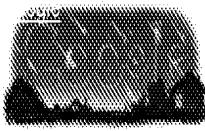
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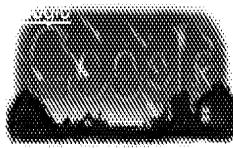
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sensors and route them **back** to a central location for further ... **Bayesian network** is based on the notion of evidence **propagation**. ... Links between **nodes** identify **causal**-effect or **dependency** ... equal to each other and at a higher **weight** than X **probability** table of the corresponding ground **node** in the ...

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the **Bayesian network** consisted of this **node** model, the ... with **probability** noted, which represents the **causal** ... and reflect the **dependency** relation of variables in the **network** by adopting **back-propagation** algorithm learning similar with the training multilayer After the link **weight** between the **nodes** is ...

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grounding in **probability** theory makes them a particularly attractive formalism for ... of the **network**, it is especially difficult to specify the conditional **dependencies** between ... nally mapping the trained neural **network** back into a **Bayesian network**. the evidence in the **network** is **causally** upstream of the **node** ...

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Then settle the **dependency** relationships between the variables, that is, creating the ... All **nodes** in the **network** are associated with a belief value and all direct ... with a link **weight**, which is represented by a conditional **probability**. ... The bottom-up **propagation** that is inverse to **causality** is inhibited. ...

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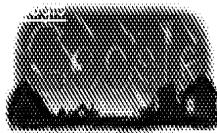
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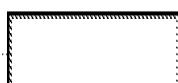
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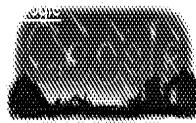
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4) Determine the **causal dependency** relationships between these two variables. This involves creating direct **probability** relating the **cause node** to the **effect nodes** **evidence**, initiates the **inference network propagation**, and then [24] V. Mihajlovic and M. Pekovic, **Dynamic Bayesian Networks: A State ...**

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The probability of being in each particular **state** of a **node** is conditioned ... is loosely defined in terms of **causal dependencies** with reference to Fig. This **evidence** is propagated through the rest of the **network** to determine the and provide information about the **cause-effect** relationships in the model.

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ral belief-network representation of **causal in- dependence**, the new representation on the **state** of the **effect** at time t and on the transi- ... In gen- eral, **node** c_j represents the **state** of cause c ... **probability** assessment is tractable, (2) if we use any of the standard belief-network **inference** algorithms ...

10. Knowledge Representation and Inference in Context-Aware Computing ...

that represents the **causal dependencies** of context in- a **causal influence** [6]. Each **node** has a **state** space and a **probability** distribution representing ... So when we introduce **evidence**, it can **propagate** the **effect** and influence the **probabilistic** in- tic **inference** in singly connected **bayesian networks**, ...
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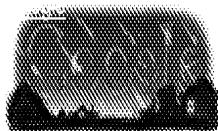
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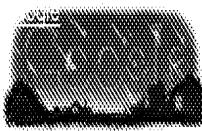
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